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of their development in two species. The modifications are introduced in the nymph stage and are almost complete in the subimago, though the eyes rapidly increase in size at the time of the final molt. Shafer thinks that the two divisions of the eye are for vision in different kind of light the regions with larger elements and less dense pigmentation being available in twilight or in the darker hours.

Notes.—Dr. Lawrence E. Griffin has published in the Missouri Valley College Quarterly Bulletin, (6, No. 4, 1907) a handy guide to the dissection of the dogfish (*Acanthias* & *Galius*). Copies may be had from the author at Marshall, Missouri, at 25 cents each.

BOTANY

Winter Rest.—In a very comprehensive series of experiments,¹ in one of which as many as 283 species were used, Dr. Walter L. Howard, of Columbia, Mo., has studied the effect of increase of temperature, narcotics, lack of light, and dehydrating agents upon plants in the resting condition. He comes to the conclusion that the resting period is due to external influences, which also determine its duration and intensity. It may be interrupted by the use of the above mentioned agents. Though the results they produce are identical, their action is different. An ample citation of literature enhances the value of this paper.

HENRI HUS.

Notes.—A quarto of 340 pages, devoted to a revision of the genus *Lepidium* by Thellung, has been separately issued from vol. 41 of the *Neue Denkschriften der Allgem. Schweizerischen Gesellschaft f. d. Gesamten Naturwissenschaften*, as a contribution from the Zürich Botanical Museum.

Some of the difficulties of cactus study are pointed out by Griffiths and Hare in an economic leaflet issued as *Bulletin no. 102, part 1*, of the Bureau of Plant Industry, U. S. Department of Agriculture.

Observations on *Sarracenia* are published by Macfarlane in *The Journal of Botany* for January.

¹ Howard, Walter L. Untersuchung ueber die Winterruheperiode der Pflanzen. Inaugural-dissertation, Halle, 1906. pp. 111.

Opuntia pusilla as a Cape weed is discussed by Nobbs in *The Agricultural Journal of the Cape of Good Hope* for December.

Illustrations of the celebrated cypress of Tule are given in *Forest Leaves* for December.

Notes on rare ferns about Media, Pa., and especially *Asplenium ebenoides*, are given by Palmer in vol. 2, no. 1 of the *Proceedings of the Delaware County Institute of Science*.

From notes in *Nature* of December 13 and January 10, it appears a subject of debate whether *Sphærotheca mors-uvæ* is a new pest in England or one of 30 years' standing.

Berghs gives an account of the nuclear phenomena of *Spirogyra* in vol. 23, fascicle 1 of *La Cellule*.

Cruchet publishes on Labiate rusts in the *Centralblatt für Bakteriologie &c.*, Abteilung II., of Dec. 28.

The biology of the sand areas of Illinois is the subject of vol. 7, article 7, of the *Bulletin of the Illinois State Laboratory of Natural History*, by Hart and Gleason.

A short readable exposition of his views on evolution and mutation is given by DeVries in *The Monist* for January.

An illustrated handbook of "The Microscopy of Vegetable Foods" with special reference to the detection of adulteration and the diagnosis of mixtures, by Winton and Moeller, has recently been issued by John Wiley and Sons of New York and Chapman and Hall of London.

The flora of the Cuban 'Sierra Maestra' is considered in a forestry study reported by Fernow and Taylor in the *Forestry Quarterly* of December.

Tobacco-culture experiments, by Hunger, occupy part 3 of the current volume of *Archives du Musée Teyler*.

Guayule (*Parthenium*) rubber is the subject of a statistical note in *Tropical Life* for December.

The Christmas number of *The Southern Lumberman* contains a number of well illustrated articles on native trees.

The activities of the Desert Laboratory at Tucson are outlined by MacDougal in the recently issued *Year Book*, No. 5, of the Carnegie Institution of Washington.

Vol. 5, no. 16 of the *Bulletin of the New York Botanical Garden* forms a general descriptive guide to the grounds, buildings and collections.

The Report of the Michigan Academy of Science, vol. 8, contains the following papers of botanical interest:—Kauffman, 'Unreported Michigan Fungi. . . .'; Beal, 'A Study of *Rudbeckia hirta*,' and 'Some Botanical Errors Found in Agricultural and Botanical Text-Books.' Dandeno, 'A Stimulus to the Production of Cellulose and Starch,' 'A Fungus Disease of Greenhouse Lettuce,' and 'The Aerating Systems of Plant Tissues'; Pennington, 'Plant Distribution at Mud Lake'; Smith, 'Some Notes on Nodules'; and Sackett, 'The Association of *Pseudomonas radicicola* with *Bacillus ramosus*.'

W. T.